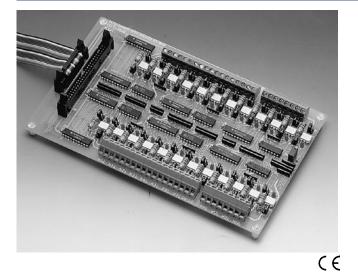
PCLD-782 PCLD-782B

16-channel Opto-Isolated D/I Board

16/24-channel Opto-Isolated D/I Board



Features

- Compatible with all PC-LabCard[™] products with D/I channels on either 20-pin flat cable or 50-pin Opto-22 compatible connectors.
- 16 or 24 optically-isolated digital input channels
- Built-in screw terminals for easy input wiring .
- LEDs indicate input logic status
- Inputs buffered with voltage comparators

Introduction

PCLD-782 and PCLD-782B digital input daughterboards feature high-voltage (> 1,500 V_{DC}) optical isolation on all inputs. PCLD-782 provides 16 input channels accessible through one 20-pin flat cable connector, which is standard on most PC-LabCard™ products. The PCLD-782B provides either 16 or 24 channels, depending on what connector you use. The PCLD-782B's 20-pin connector lets you access 16 channels, similar to the PCLD-782, but also provides a 50-pin Opto-22 connector with access to 24 channels.

Both cards have onboard screw terminals for easy input wiring. Optically isolated signal conditioning provides isolation between separate channels, as well as between each input channel and the PC. This isolation prevents floating potential and ground loop problems while protecting the input lines from potentially damaging fault conditions.

A red LED on each input channel indicates its status. If the input signal is high, the LED is lit. You can configure each channel to work in either isolated or non-isolated mode. A variable resistor adjusts the threshold level for all 24 isolated input channels simultaneously.

Specifications

Digital Input

•	Input	Channels	
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- Input Range
- Input Resistance
- Isolation Voltages
- 1,500 V_{DC} min. Threshold Voltage 1.5 V_{DC} (VR adjustable)

General

- Certifications
- Connectors

Digital Input: Controller:

Screw terminals (#12 ~ 22 AWG) PCLD-782: 1 x 20-pin flat cable connector (CN1) PCLD-782B: 1 x 20-pin flat cable connector (CN1) and 1 x 50-pin Opto-22 connector (CN2) PCLD-782: 3U- 205 x 114 mm (8.1" x 4.5") PCLD-782B: 4U- 220 x 132 mm (8.7" x 5.2") Indicates input logic status

4 x screw holes for flat surface mounting

24 (PCLD-782B), 16 (PCLD-782)

 $0 \sim 24 V_{DC}$

560 Ω

CE

LED Indicators

Dimensions (L x W)

Mounting

Ordering Information

PCLD-782B	16/24-channel Opto-isolated D/I Board, user's manual, one 1m						
	20-pin flat cable assembly (P/N: PCL-10120-1) and one 1.2m 50-pin flat cable (P/N: PCL-10150-1.2)						
 PCLD-782 	16-channel Opto-isolated D/l Board, user's manual and 1 x 1 m 20-pin flat cable assembly(P/N: PCL-10120-1)						
PCL-10120-1	20-pin flat cable assembly, 1m						
PCL-10120-2	20-pin flat cable assembly, 2m						
 PCL-10150-1.2 	50-pin flat cable, 1.2m (for connecting the PCL-722 or 724 to the PCLD-885, 782B or 785B)						
Pin Assignments							
CN1	CN2						
	DI1 DI23 1 2 GND						

CN1					CN2	
DI0	1	2	DI1	D I 23	1	2
DI2	3	4	DI3	DI22	3	4
DI4	5	6	DI5	DI21	5	6
DI6	7	8	DI7	D I 20	7	8
DI8	9	10	DI9	DI19	9	10
DI10	11	12	DI 11	DI18	11	12
DI12	13	14	DI13	DI17	13	14
DI14	15	16	DI15	DI16	15	16
GND	17	18	GND	DI15	17	18
+5 V	19	20	+12 V	DI14	19	20
				D I 13	21	22
				DI12	23	24
				DI11	25	26
				DI10	27	28
				D I 9	29	30
				DI8	31	32
				DI7	33	34
				D I 6	35	36
				DI5	37	38
				DI4	39	40
				DI3	41	42
				DI2	43	44
				D l 1	45	46
				DI0	47	48
				+5 V	49	50

GND

GND

GND

GND

GND GND

GND

GND

GND GND

GND GND GND GND GND GND GND GND GND GND GND GND GND GND